

## Claims

Please amend the claims to read as indicated in the following list of claims:

Claims 1 - 22 Cancelled.

23. [Currently amended] A method of making a high impedance surface comprising the steps of:

(a) forming a structure from sheet metal, the structure having a plurality of openings therein with confronting pairs of sidewalls on the sides of the openings, the structure also having a plurality of protrusions projecting from a major surface thereof; and

(b) joining said structure to additional sheet metal such that ends of said protrusions remote from said major surface are coupled to the additional sheet metal, the confronting pairs of sidewalls of each of said openings defining opposing plates of a capacitor for controlling resonance frequencies of said high impedance surface as a function of location of each capacitor along said high impedance surface.

24. [Original] The method of claim 23 wherein the additional sheet metal is a generally planar sheet metal.

25. [Original] The method of claim 23 wherein the protrusions have a greater depth than do the sidewalls.

26. [Original] The method of claim 23 wherein the sidewalls are spaced a distance from the additional sheet metal.

27. [Original] The method of claim 23 wherein the sidewalls which confront one another are disposed parallel to each other.

28. [Original] The method of claim 23 wherein said sidewalls define a repeating geometric pattern.

29. [Original] The method of claim 28 wherein the repeating geometric pattern is a pattern of square-shaped cells.

Claim 30 - 33 Cancelled.

34. (Currently amended) ~~The A method of claim 23~~  
making a high impedance surface comprising the steps of:  
(a) forming a structure from sheet metal, the structure  
having a plurality of openings therein with confronting  
sidewalls on the sides of the openings, the structure also  
having a plurality of protrusions projecting from a major  
surface thereof; and  
(b) joining said structure to additional sheet metal  
such that ends of said protrusions remote from said major  
surface are coupled to the additional sheet metal

wherein the confronting sidewalls are formed to depend in a direction away from said openings and towards said additional sheet metal, but being spaced therefrom, so that

a gap occurs between each depending sidewall and said additional sheet metal.

35. [Previously presented] A method of making a high impedance surface having a plurality of capacitors formed therein, the method comprising:

(a) forming a structure from sheet metal, the structure having a plurality of openings therein with confronting sidewalls defining the sides of the openings, the structure also having a plurality of protrusions projecting from a major surface thereof, the confronting sidewalls providing opposing plates of said capacitors; and

(b) joining said structure to additional sheet metal such that ends of said protrusions remote from said major surface are coupled to the additional sheet metal.

36. [Previously presented] The method of claim 35 wherein the additional sheet metal is a generally planar sheet metal.

37. [Previously presented] The method of claim 35 wherein the protrusions have a greater depth than do the sidewalls.

38. [Previously presented] The method of claim 35 wherein the sidewalls are spaced a distance from the additional sheet metal.

39. [Previously presented] The method of claim 35 wherein the sidewalls which confront one another are disposed parallel to each other.

40. [Previously presented] The method of claim 35 wherein said sidewalls define a repeating geometric pattern.

41. [Previously presented] The method of claim 40 wherein the repeating geometric pattern is a pattern of square-shaped cells.

42. [Previously presented] The method of claim 35 wherein the confronting sidewalls depend in a direction away from said openings and towards said additional sheet metal, but being spaced therefrom, so that a gap occurs between each depending sidewall and said additional sheet metal.